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HOW TO MAKE AND KEEP A LAWN.

grance and the soothing effect of uature which comes from well-kept green swards that make them so congenial to man. Grass is nature's balm and healing for all erosive scars. Naplaces, and immediately proceeds to over such ugly spots with green grass. Man likes to get his feet upon the soil, but better still upon the soft, yielding green sward. Rich rugs and carpets do not give the clastic spring that the well-made and well-kept greensward

Prof. Norothrup Explains.

At his last lecture before the nature lasses at the university, Professor rthrup explained how to succeed in

The first step is to prepare the soil. In general the soil for a lawn must first be cultivated to a sufficient depth, say eight or ten inches, just the same the larger farm crops; hough lawn grass at first is a shallowfeeder, it may finally be induced to go deep for its food; and the ground is prepared with that object in view. shallow cultivation will permit the lawn to run out in a few years or will make constant fertilizing a necessity. The soil should first be well pulverized in order to set free the food required by the plants: the top soil layer escially should be finely worked just

Sowing the Grass.

The lawn possesses a double value; it | The select seed is the most economical In the laws assistance and economic farportance. Every effort made to beauportance entdoor surround page includes by the outdoor surround ngs includes ance of seed. With economy and care tify the one grass is the best and one quart of blue grass seed will be almost the only setting for the various sufficient for 300 square feet of lawn. effects of landscape gardening. It is but it is well for amateur gardeners to indispensable to all our ideas of rural double or even treble this amount. Two beauty. Says Corbett:
beauty. Says Corbett:

The herbage of the field is the primary dependence of all animal life, and ary dependence of all animal life, and it is the green color, the sweet fration in the state of the same and the same area. Or three bushels of seed per acre may be used in large areas. White clover seed may be mixed with the blue grass, since the clover is able to re-

The seed should be divided into two the parts and sown broadcast in two direct parts and sown broadcast parts and sown broa tions, the second sowing to be at right angles with the direction of the first. The soil must be very loose and fine for the first few inches from the surface, and, for the sake of moisture, the seed must be brought in close contact with the so l. The seed is simply raked in and then gently sprinkled night and

"It is better to use an excessive amount of seed and allow natural se-lection to eliminate the weak specimens rather than to seed sparsely with the hope that the natural habits of the plants will be sufficient to enable them to take possession of the entire area. A thick stand of plants of the desired species gives little opportunity for the development of weeds, while a the stand of the same species offers a place for the growth of weeds, which may become determined competitors for the possession of the ground, thus subjecting the gardener to the necessity of eliminating the weeds or of re-establishing the lawn. Heavy seeding of grass is therefore, a very important matter in the establishment of lawns."

The Soil for Lawns.

A soil moderately moist and with a strong percentage of clay is the ideal of all the lawn grasses yet extensive. seedbed for grasses that form lawns. tried Kentucky blue grass is the best It should retain moisture without beor our latitude. It may be planted in coming too wet. Such a soil is heavy for our latitude. It may be planted in either the fall or the spring; but early spring planting gives the best results in most parts of this state. Lawn grass may be made to grow even if planted may be made to grow even if planted should be the aim in the preparation in summer, but it then requires much of lawn beds. It sand is the only founin summer, but it their requires intent care and a covering of fine-cut grass dation, a top dressing of two or three as a shield against the sun's heat. The seed should be pure—unmixed with and then mixed in with the first six which is so fine that it will be carried beneath the surface of the grass by the rains and snows of winter. power. Good blue grass seeed weighs alfalfa may first be grown and the about twenty-two pounds per bushel; foliage plowed under, so as to mix an inferior seed only about twelve pounds. abundance of vegetable maiter with

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Stable manure may be plen- trogen. In the west, most fortunately tifully used, since it is hardly possible we have a ready means of adding nitro-to make the soil too rich. Forty to gent to the soil as well as by the ap-sixty loads per acre is not too much to plication of manures. By the growing

gen, petash and phosphoric acid. Most sible to secure all the nitrogen that is of the soils in the semi-arid regions are necessary for abundant foliage, either naturally fertile, but many of them are from the air, by planting lucern or simdeficient in nitrogen, which is espe- ilar crops, or from the barnyard by cially necessary for the lawn. Nitrogen increases the foliage growth, and it is the leaves that are desired in the case of lawn growing. If e ther from those containing potash and phosphoric exhaustion or from newness the soil acid need be bought. A recent authoric or the prospective lawn is infertile. the plant food can be restored in many ways. The first of these ways is by the application to the land of stable manures (preferably those that are sale or for plowing under. The imporwell rotted). Manure contains a porin commercial fertilizers.

Establishing the Lawn.

ting allow the clipped grass to remain their best growth.

on the lawn. Work this grass into the An excess of nitrogen has certain disthe grass is a very shallow feeder and the top layer of soil becomes poor before the grass is thoroughly established. If the grass is all carried away, such weeds as the dandelion, shepherd's purse and storkshill, which have long. purse and storksbill, which have long, leep roots from the first, obtain an immense advantage over the grass and may displace it. It is of little use to better way is to give the grass a good hit the mark start in the spring without mowing. not however, permitting it to go to seed; then to cut it while the dandellon heads are erect and before they have gone to seed; then to dig them out and Savage Co., 12 and 14 Main. sow new grass seed in the holes thus made. The lawn grass will vanquish the weeds if it is given a good opportunity to do so. Only where the soil s rich and the growth very luxuriant s it necessary to rake off the clippings. which are not detrimental on poor soils inless in such quantity as to become unsightly. Frequent and light clipping, rolling

and finally a top dressing of free ground bone in the spring-these are the general directions for the maintenance of the lawn.

The Sodding of Banks.

Upon sloping banks sods should be ecured from other lawns and well ressed or rolled upon a prepared bed so as to unite the sod roots with the under soil. Where this is not practicable, the sods may be cut into small pieces and rolled into the sloping soil grass or pieces of turf may be planted

it intervals in the same way. In order to cover the entire surface of the bank or terrace, a common method is to cut the sod into pieces a foot square and about two or two and one-half inches thick. This answers well upon small areas if the sod is cut a uniform thickness and the surface of the groud is made very smooth otherwise, there is more or less diffiulty in getting the squares of sod ad usted evenly so as to produce a nooth surface Considerable ramming or pounding is necessary in order to establish the desired smoothness, unless great care is exercised in cutting the turf to a uniform thickness and in providing a smooth surface to lay it

Corbett suggests that upon steep banks which are of a sandy nature; and under conditions where it is difficult to use sod, a pleasing appearance can be produced by the use of Japanese honeysuckle (Lonicera japonica). This plants is capable of establishing and ma'ntaining itself under adverse conditions, and it makes a good soil binder and has the advantage of being ever-

Places for Trees and Shrubs.

Trees or shrubs on lawns should be upon its boundaries, near the building and in the background. As one would not desire the furniture in the parlor to take up three-fourths of the room, so the green carpet of the lawn should not be covered with such furniture as trees and flower beds. Paths and drives across lawns are for utility, not for beauty; they should be straight, unless there should be a legitimate reason for a curve. Sometimes there will exist naturally a small hill or clump of trees and a curve is rightly made in order to spare them. And curves are made to seem natural by planting shrubs or trees, but not flowers, in the angle. Gravel walks in lawns are preferred to pavements, and should be below the grade so as to be hidden from the oberver a few hundred feet away.

Trees and shrubs should be used to conceal unsightly objects in the foreground or in the background, to give the idea of surprise or discovery in passing from one portion of a large es-tate to another, and for the purpose of increasing the apparent length in drives which double back upon themselves in parks and pleasure grounds. Evergreens which are used upon the lawn should have the lower branches preserved so as to produce the effect of arising from the ground not merely by a single stem

A word further as to plant foods. The results of plenty of nitrogen are seen at once in the greener and more abundant leaf, and this is what we desire in the case of lawn growing. Nitrogen makes the whole plant go ahead, and the farmer is likely to think more of nitrogen than of phosphorus and potash; yet he will have to wait till harvest and actually weigh the product to see the results. Nitrogen increases the vegetative parts of the plant, and an excess of it tends to make the plant go on growing too long and defers the production of flower and seed; it puts off the ripening. Excessive nitrogen has doubled the amount of wheat straw, but reduced the per cent of wheat grain

from 62 down to 48 per cent.
Phosphoric acid applied to the soil hurries on the production of flowers and seed, the ripening of the grain. Phosphorus is of enormous value in pushing the crop on to ripeness. It is also an extraordinary stimulant to the formation of roots and of side shoots.

It is the special action of potash to aid the plant in making carbohydrates, sugar, and starch. This process cannot go forward unless potash is present; to increase this process, increase the potash. Best yields at Rothamsted have been more than doubled by the addition of potash. Each of the three fertilizers has a specific effect and should be applied according to the specific needs of

It will be seen that the chief fertilizer required for the lawn in case the soil is exhausted or is new and "raw," is ni-

The soil for lawns should be well supplied with the chief plant foods—nitro—a very successful lawn. It is thus possible to secure all the nitrogen that is poses than lawnmaking we should need o purchase fertilizing materials, only acid need be bought. A recent authority says that every farmer should grow leguminous crops as extensively as pos

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ion of the plant food which was fed to and greater as the nitrogen in the soil the farm animals, and is especially rich decreases. Nitrogen is the most expen in the element nitrogen. The two other sive kind of fertilizer, and, so far as plant foods, when lacking, are supplied possible, it should be secured from the air and not by purchases in feeding stuffs or fertilizers. Leguminous crops do not add to the store of phosphoric When the grass comes up, do not acid or potash in the soil, and may, inlip it too soon; and after the first cut- deed, require these fertilizers to effect

sible, for his own use in feeding, for

od; it is a good fertilizer and helps to advantages; it renders plants more susmake the surface cushion. Set the ceptible to disease, especially fungus mower to a height of two inches for disease. Mangolds at Rothamsted are regular clippings, and cut so frequent- swept every year with fungus disease, y that a good part of the short clp while three feet away are perfectly may be left upon the lawn to protect sound, healthful beets. The infection and nourish the grass roots. At first is alike in both places, but it takes only

The attention our new line attracts but off the tops and a small portion of and the enthusiasm it is stirring up by the roots of dandelions, since that all who see it, is the best evidence that, operation merely multiples them. The as usual, we are in the lead and have

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There are splendid bargains in every piece of furniture in the store with the exception of Macey Goods, and all of our carpets, rugs and draperies have been included.

Come and see for yourself how the prices have shrunk. In material, workmanship, style and wearing qualities, the furniture at "The Store Beautiful" cannot be excelled. We are offering you the easiest way to furnish your home or office, and you can save many a dollar by taking advantage of our offerings this final week.

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